



Land Subsidence Rate in the Willcox and Kansas Settlement Areas, Cochise County
Based on Sentinel-1 Satellite Interferometric Synthetic Aperture Radar (InSAR) Data
Time Period of Analysis: 0.9 Years 03/11/2021 To 01/17/2022

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Explanation

03/11/2021 To 01/17/2022

Land Subsidence Rate

Decorrelation/No Data	Greater 7 cm/yr (2.8 in/yr)
5 - 7 cm/yr (2.0 - 2.8 in/yr)	3 - 5 cm/yr (1.2 - 2.0 in/yr)
2 - 3 cm/yr (0.8 - 1.2 in/yr)	1 - 2 cm/yr (0.4 - 0.8 in/yr)
0.5 - 1 cm/yr (0.2 - 0.4 in/yr)	0 - 0.5 cm/yr (0 - 0.2 in/yr)

Subsidence Feature

Hardrock

Earth Fissures

Highways and Interstates

Interstate

US

State

Roads

Railway



1:250,000

0 1.5 3 6 9 12 Miles

Decorrelation (white areas) are areas where the phase of the received satellite signal changed between satellite passes, causing the data to be unusable. This occurs in areas where the land surface has been disturbed (i.e. bodies of water, snow, agriculture areas, areas of development, etc).

Earth fissures were mapped by the Arizona Geological Survey. For information on earth fissures visit: www.azgs.az.gov/EFC

Coordinate System: NAD 1983 UTM Zone 12N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Created: 6/7/2022

